

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application.

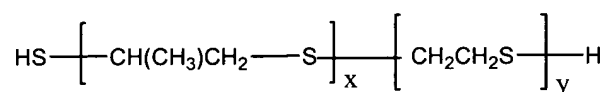
Listing of the Claims:

Claims 1-21 (canceled).

22. (previously presented): A transparent, non-elastomeric, polythiourethane/urea material comprising the reaction product of:
- (a) at least one (α , ω)-diiso(thio)cyanate prepolymer having a number average molecular weight ranging from 100 to 3000 gmol^{-1} , said prepolymer being free from disulfide (-S-S-) linkage, and
 - (b) at least one aromatic primary diamine, in an equivalent molar ratio amine function/iso(thio)cyanate function (NH_2/NCX , $\text{X}=\text{O}, \text{S}$) ranging from 0.5 to 2, said aromatic primary diamine being free from disulfide (-S-S-) linkage, and
- wherein, at least one of the prepolymer or the diamine contains one or more S atoms in its chain.
23. (previously presented): The transparent, non elastomeric polythiourethane/urea material of claim 22, wherein the equivalent ratio NH_2/NCX ranges from 0.90 to 1.10.
24. (previously presented): The material of claim 22, wherein the equivalent ratio NH_2/NCX ranges from 0.93 to 0.95.
25. (previously presented): The material of claim 22, wherein the (α , ω)-diiso(thio)cyanate prepolymer is a cycloaliphatic or aromatic prepolymer and wherein the prepolymer is the reaction product of at least one (α , ω) diol or dithiol prepolymer and at least one cycloaliphatic or aromatic diiso(thio)cyanate.
26. (previously presented): The material of claim 25, wherein the (α , ω) diol or dithiol prepolymer contains at least one S atom in its chain.

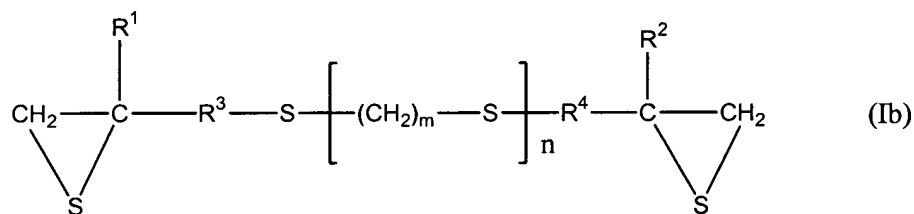
27. (previously presented): The material of claim 25, wherein the (α , ω) diol or dithiol prepolymer is a polysulfide or a mixture of polysulfides.
28. (currently amended): The material of claim 27, wherein the polysulfide or mixture of polysulfides is selected from the group consisting of:

- Prepolymers of formula :

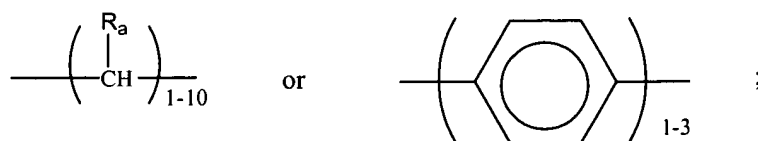


in which x and y are such that the number average molecular weight of the prepolymer ranges from 100 to 3000 gmol^{-1} ;

-prepolymers resulting from the polymerization of diepisulfides of formula:

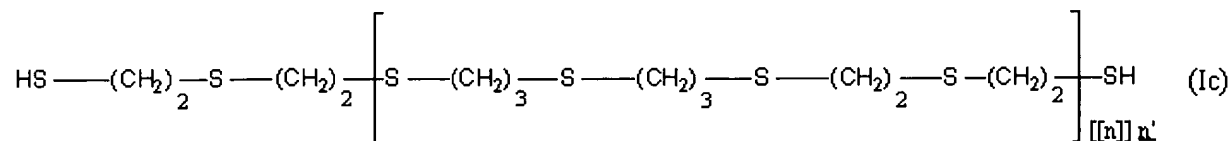


in which R^1 and R^2 are, independently from each other, H, alkyl, aryl, alkoxy, alkylthio or arylthio; R^3 and R^4 are, independently from each other,



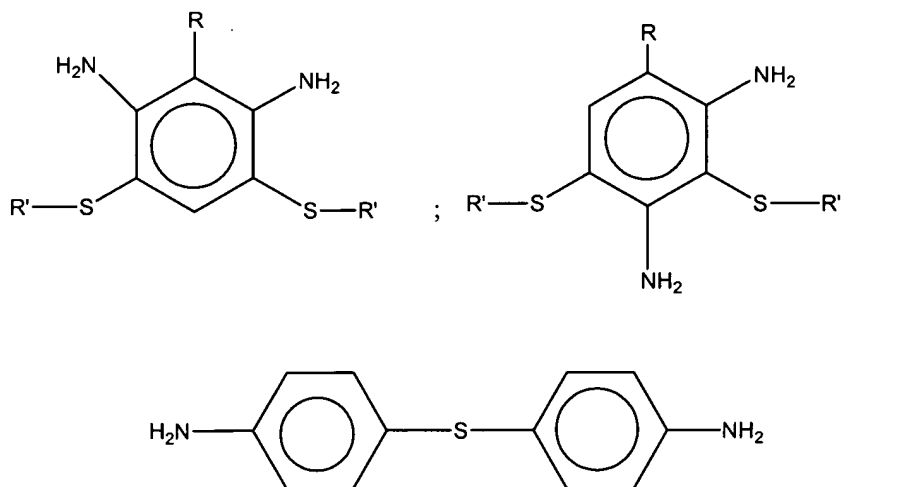
R_a designates H, alkyl, aryl, alkoxy, aryloxy, alkylthio or arylthio and, n is an integer from 0 to 4 and m is an integer from 1 to 6, and

-prepolymers of formula:



where n' is such that the number average molecular weight (\overline{M}_n) of the prepolymer ranges from 500 to 1500 g mol⁻¹.

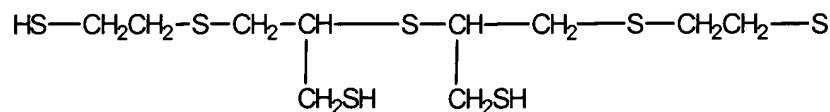
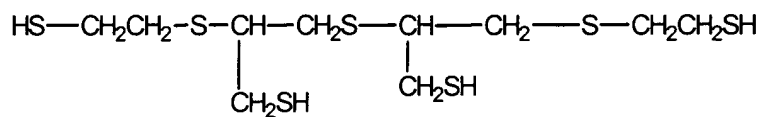
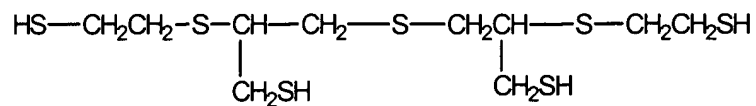
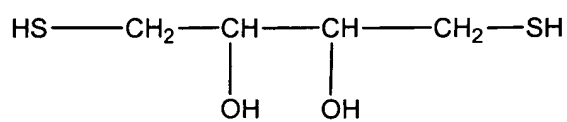
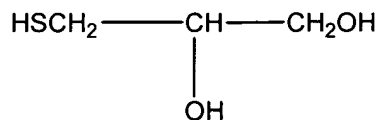
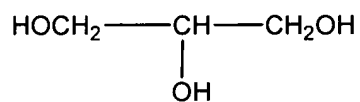
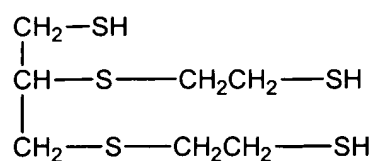
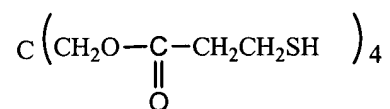
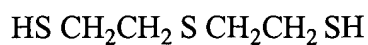
29. (previously presented): The material of claim 22, wherein the aromatic diamine contains at least one S atom in its molecule.
30. (previously presented): The material of claim 29 wherein the diamine is selected from



in which R is H or an alkyl group and R' is an alkyl group, and mixtures of the above diamines.

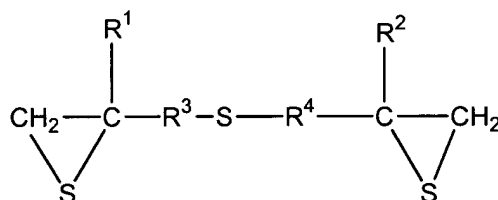
31. (previously presented): The material of claim 22, wherein the material is also the reaction product of the (α , ω)-diisothiocyanate prepolymer with a di-, tri- or tetra alcohol, a di-, tri or tetrathiol or a mixture thereof, which is mixed with said at least one aromatic primary diamine.

32. (previously presented): The material of claim 31, wherein the alcohols and thiols are selected from the groups consisting of :

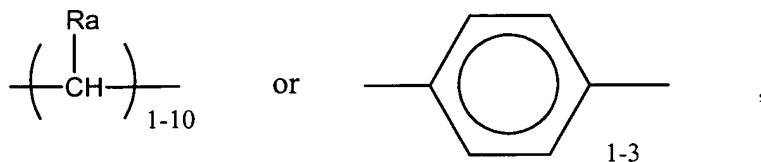


and mixtures thereof.

33. (previously presented): The material of claim 22 having a refractive index, n_D^{25} , higher than 1.53.
34. (previously presented): The material of claim 22 having a refractive index, n_D^{25} , of at least 1.55.
35. (currently amended): The material of claim 22 having a refractive index, n_D^{25} , of at least 1.57.
36. (previously presented): The material of claim 27, wherein the polysulfide is an hyperbranched polysulfide resulting from the polymerization of a diepisulfide of formula:

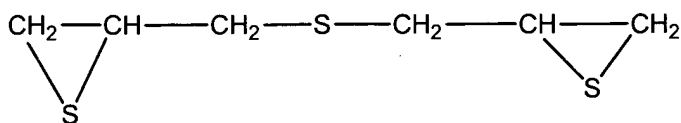


in which R^1 and R^2 are, independently from each other, H, alkyl, aryl, alkoxy, alkylthio or arylthio, R^3 and R^4 are independently from each other,

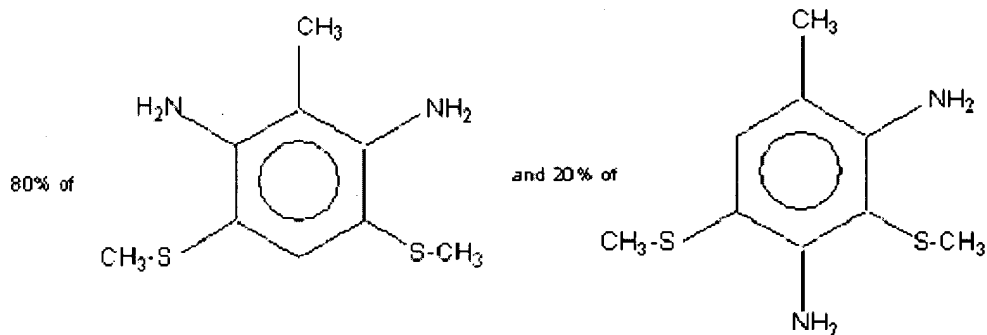


Ra designates H, alkyl, aryl, alkoxy, aryloxy, alkylthio or arylthio, with 2-mercaptoethyl sulfide (DMES).

37. (previously presented): The material of claim 36, wherein the diepisulfide has formula :



38. (previously presented): An optical article made from a material according to claim 22.
39. (previously presented): The material of claim 28, wherein n' is such that the number average molecular weight (\overline{M}_n) of the prepolymer ranges from 650 to 1350 g mol⁻¹.
40. (previously presented): The material of claim 25, wherein the prepolymer is the reaction product of at least one (α , ω) dithiol prepolymer.
41. (previously presented): The material of claim 25, wherein the prepolymer is the reaction product of at least one (α , ω) dithiol prepolymer further comprising at least one S atom in its chain.
42. (previously presented): The material of claim 30, wherein R and R' are CH₃.
43. (previously presented): The material of claim 30, wherein the diamine is a mixture of by weight:



44. (canceled).

Remarks to the June 15, 2005, Office Communication:

A. Status of the Claims

Claims 22-43 were pending when the Office Communication dated June 15, 2005, was mailed to Applicants. Claim 28 has been amended to correct a typographical error by amended “n” to “n’” within the formula (Ic). No new matter has been added and support for this amendment can be found throughout the claims and application as originally filed. Claims 22-43 are therefore currently pending.

B. Remarks to the Office Communication and Summary of a Telephonic Interview

The Office Communication dated June 15, 2005, indicates that the response filed by Applicants on February 28, 2005, was “not fully responsive.” Specifically, the Communication states:

Despite applicants’ response, it is not seen that the rejection, set forth within paragraph 3 of the Office Action, of the multiple “n” variables has been adequately addressed. While “n’” has been set forth as one of the variables, no formula contains n’.

Applicants discussed this statement Examiner Sergeant on July 8, 2005, and confirmed that the present amendment to claim 28 would address the Examiner’s concerns.

C. Conclusion

Applicants believe that this Supplemental Response is fully responsive to the Office Communication dated June 15, 2005. Applicants request that the response filed on February 28, 2005, and the present Supplemental Response be considered.

It is believed that no fees are due with the filing of this Response. However, should any fees be due under 37 C.F.R. §§ 1.16 to 1.21, the Commissioner is authorized to deduct any fees from or to Fulbright & Jaworski Deposit Account No. 50-1212/ESSR:058US.

The Examiner is invited to contact the undersigned Attorney at (512) 536-3035 with any questions, comments or suggestions relating to the referenced patent application.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'MBW', is written over the text 'Respectfully submitted,'.

Mark B. Wilson

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Date: July 11, 2005